

Results for the 14'x140' circular tank with ramp:

Circular tank:

Tank Diameter = 140 ft

Tank Wall thickness = 12 in (actual)

Tank Height = 14 ft

$f_y = 60,000$ psi

$f'_c = 4,000$ psi

Horizontal Steel = #4 rebar Steel shown in table must be placed in each face of the wall		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	12	1' 3"
3	12	2' 3"
4	12	3' 3"
5	10	4' 1"
6	10	4' 11"
7	8	5' 7"
8	8	6' 3"
9	8	6' 11"
10	8	7' 7"
11	8	8' 3"
12	8	8' 11"
13	8	9' 7"
14	8	10' 3"
15	10	11' 1"
16	10	11' 11"
17	10	12' 9"
18	12	13' 9"

Vertical Steel = #4 @ 12" O.C. in each face.

Dowels "L" bars from tank to footing shall be #4 @ 12" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg

For a length of 80 feet, centered on the ramp:

Substitute #5 rebar for the #4 horizontal rebar for bars #3 to bar #10 in the tank. (8 extra bars in each mat of steel, 16 total).


Substitute #5 @ 12" O.C. vertical steel in each face for the #4 @ 12" O.C. vertical steel in each face.

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 13'-10" long @ 4" O.C. vertically in each mat of steel (8 total)

4-#6 bars x 20' long @ 4" O.C. horizontally in each mat of steel (8 total)

4-#6 bars x 6 feet long @ 4" O.C. at a 45 degree angle in each mat of steel (8 total).

 <p>Natural Resources Conservation Services United States Department of Agriculture</p>	<p>_____ County, PA</p> <p>ROUND TANK W/RAMP</p> <p>DETAIL Page 6.29</p>	<p>Designed <u>PA NRCS</u> <u>12/01</u></p> <p>Drawn <u>Hartz</u> <u>2/1/08</u></p> <p>Revisions <u>Pereverzoff</u> <u>1/9/08</u></p> <p>Checked _____</p> <p>Approved _____</p>